Patrick Blesi

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PROFESSIONAL SUMMARY:
Focused and dedicated individual with 6+ years industry experience as a software engineer, technical lead, and manager, leading teams to deliver products through the full software development life cycle and a proven track record of delivering results.

RELEVANT EXPERIENCE:

Tech Lead, Manager (Platform Group) – Braintree (PayPal), Chicago, IL   **October 2016 – Present**
- Managed 2 teams of 4 engineers to improve deployment and development processes and scale Braintree's data storage layer
- Improved deployment process of main payment processing application by parallelizing deployment of background systems, adding canary deployments, and enabling out-of-band database migrations
- Upgraded main payment processing application from Rails 4 to Rails 5
- Created Ruby DSL for codifying and automating common operational runbooks

Tech Lead (Support Developers) – Braintree (PayPal), Chicago, IL   **June 2015 – September 2016**
- Lead team of 7 engineers, developing sample Braintree integrations in 6 different languages, improving server sdks, reducing support ticket, stack overflow, and github issue response times from weeks to hours
- Implemented threading model using channels to parallelize import process to eliminate race conditions and triple throughput for a single process

Senior Software Engineer (Pay with PayPal) – Braintree (PayPal), Chicago, IL   **June 2014 – June 2015**
- Developed main integration to PayPal rest API through Braintree
- Lead development of PayPal browser-switch feature to allow mobile users to store credentials for fast, easy checkout

Software Engineer – Wowzers Llc, Chicago, IL   **September 2013 – June 2014**
- Developed Ruby on Rails full stack implementation of student grade-reporting feature
- Created naïve Bayes classifier classifying user feedback into one of four categories, achieving 87% accuracy

Software Engineer – Higi Llc, Chicago, IL   **August 2012 – September 2013**
- Developed customer-facing analytics platform integrating JSON database, MSFT SQL Server, and Tableau Server to synthesize web, mobile, and kiosk data for 500,000+ users, 6,000,000+ records
- Developed redundant, fault-tolerant, high availability Twitter monitoring daemon to process user submitted photos via Twitter, Instagram, Twitpic, and yfrog clients
- Developed C# Facebook and Twitter API clients for querying user info, posting messages, creating app invites, and monitoring twitter streams

Mathematics Teacher – Teach For America, Chicago, IL   **June 2011 – August 2012**
- Prestigiously selected as one of 5,300 candidates out of 45,000 applicants (12% acceptance rate) to teach Algebra, Geometry, and Algebra II in an urban school district
- Facilitated student learning which led students to achieve over 2 years of growth in mathematical reasoning ability

All-Team Lead, Software Team Lead – IEEE Robotics Team, UW-Madison   **August 2010 – June 2011**
- Administrative and software development lead for 35 member organization
- Directly managed design and development of robotic control networking software framework (JAUS) in Java via UDP

Research Assistant – Biostatistics Department, UW-Madison   **May 2010 – January 2011**
- Selected to head research project developing machine learning algorithms in MATLAB detecting statistically significant connections of brain regions in MRI data in order to classify brain pathologies
- Implemented independent component analysis, L1-regularized least squares regression, L1-regularized logistic regression machine learning algorithms on autoregressive models

PERSONAL PROJECTS:

Globally Synchronized Wifi Touch Lights   **December 2017**
- Designed and built wifi-enabled touch lamps that synchronize their color when any one of the lamps is touched
- Designs have been used by others to create dozens of lamps

Personyms.com   **February 2015 – Present**
- Website for selling personalized email and web addresses (e.g. patrick.ble.si)

TECHNICAL SKILLS (IN ORDER OF FAMILIARITY):
    Programming Languages: Ruby, Bash, SQL, Java, C#, JavaScript, Haskell
    Technologies: Ruby On Rails, Postgres, Puppet, Capistrano, Bootstrap
    Operating Systems: 14+ years working with Unix-based operating systems.
    Development Tools: vim, git, tmux, emacs, PostgreSQL, Eclipse, Visual Studio

EDUCATION: University of Wisconsin-Madison   **May 2011**
                    Bachelor of Science: Math & Computer Science
                    Honors: Dean's List Fall 2009, Fall 2007